

STM 302

Advanced S&T Management

This course provides an understanding of the procedures and mechanisms used to transition emerging technologies into warfighting systems. Attendees will be able to apply the critical skills of the Systems Engineering, Integrated Product and Process Development (IPPD), and software management processes. They will also learn how to apply effective technology transition practices.

Objectives: Students who successfully complete this course will be able to:

- apply the principles of systems engineering management and its various tools, such as:
 - systems engineering process,
 - configuration management and technology readiness,
 - risk management,
 - trade studies,
 - value engineering,
 - six sigma,
 - software management,
 - test and evaluation planning, and
 - modeling and simulation;
- assess the implications of various technology transition mechanisms using the IPPD process, including integrated product teams; and
- apply effective technology transition practices, such as transition exit criteria, transition plans, affordability analyses, and cost schedule reporting.

Who Should Attend: Personnel who desire certification at Level III and whose duties include: (1) developing overall program goals for Science and Technology (S&T) funds; (2) acquiring the services of scientists, engineers, and technical support personnel to perform advanced S&T research for DoD; (3) providing funds and oversight of the S&T performers, including universities, industry, and Federal Government organizations; and (4) interfacing with the technology customers to expedite the transition to the user should attend.

Prerequisite: STM 201

Length: 5 class days

Method of Delivery: Resident/Local

PDS Code: PGR



SYS 201A

Intermediate Systems Planning, Research, Development and Engineering, Part A

This journeyman-level course exposes students to systems engineering and associated topics. Course content includes the systems engineering process; systems engineering planning; technology insertion; risk management; trade studies; configuration management; cost containment; technical reviews; and Environmental, Safety, and Occupational Health (ESOH).

Objectives: Students who successfully complete this course will be able to:

- understand the systems engineering process;
- know the associated systems engineering technical activities;
- evaluate a Hazardous Material Management Plan and identify ESOH issues that need further clarification; and
- develop and defend a technical review checklist.

Who Should Attend: The course is required for Level II certification in the Systems Planning, Research, Development and Engineering (SPRD&E)—Systems Engineering career field.

Prerequisite: ACQ 201B

Recommended: At least 2 years of SPRD&E experience

Length: This is a nonresident, self-paced course available through the Internet. Students must pass the final examination within 60 calendar days of the start date.

Method of Delivery: Distance Learning—See “Online Courses” on page 12



PDS Code: RGW